Cellular Immunology

AN INTERNATIONAL JOURNAL

EDITOR-IN-CHIEF: H. Sherwood Lawrence

Volume 49, 1980

ACADEMIC PRESS

A Subsidiary of Harcourt Brace Jovanovich, Publishers

New York London Toronto Sydney San Francisco

Copyright © 1980 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (Operations Staff, P.O. Box 765, Schenectady, New York 12301) for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1980 articles are the same as those shown for current articles.

MADE IN THE UNITED STATES OF AMERICA

Contents of Volume 49

NUMBER 1, JANUARY 1980

LINDA K. CURTISS, DAVID H. DEHEER, AND THOMAS S. EDGINGTON. Influence of Immunoregulatory Serum Lipoprotein LDL-In on the *in Vivo* Proliferation and Differentiation of Antigen-Binding and Antibody-Secreting Lymphocytes during a Primary Immune Response 1

GUNTHER DENNERT. H-2-Restricted T-Cell-Mediated Cytotoxicity: Rediscovering Allo-H-2 Reactivity? 12

ARTHUR A. VANDENBARK, ADOLPH JOHN FERRO, AND CAROLYN L. BARNEY. Inhibition of Lymphocyte Transformation by a Naturally Occurring Metabolite: 5′-Methylthioadenosine 26

FRANK J. WAXMAN, ROBERT B. FRITZ, AND DAVID J. HINRICHS. The Presence of Specific Antigen-Reactive Cells during the Induction, Recovery, and Resistance Phases of Experimental Allergic Encephalomyelitis 34

ANTHONY S. FAUCI, TOHRU MURAKAMI, DAVID D. BRANDON, D. LYNN LORIAUX, AND MORTIMER B. LIPSETT. Mechanisms of Corticosteroid Action on Lymphocyte Subpopulations. VI. Lack of Correlation between Glucocorticosteroid Receptors and the Differential Effects of Glucocorticosteroids on T-Cell Subpopulations 43

TOSHIHIKO SADO, HITOKO KAMISAKU, AND SHIRO AIZAWA. Nature of T-Cells Resident in Spleens of Thymectomized, Lethally Irradiated, Bone Marrow-Reconstituted Mice 51

JOOST J. OPPENHEIM, WILLIAM J. KOOPMAN, LARRY M. WAHL, AND SUANNE F. DOUGHERTY. Prostaglandin E_2 Rather Than Lymphocyte-Activating Factor Produced by Activated Human Mononuclear Cells Stimulates Increases in Murine Thymocyte cAMP 64

RICHARD A. LUBEN. An Assay for Osteoclast-Activating Factor (OAF) in Biological Fluids: Detection of OAF in the Serum of Myeloma Patients 74

DAVID A. LAWRENCE. Cyclization of T-cell Helper Activity 81

ROSEMARIE H. DEKRUYFF AND GREGORY W. SISKIND. Studies on the Control of Antibody Synthesis. XVI. Effect of Immunodepression on Antibody Affinity 90

REGINA R. SKELLY, PRISCILLA MUNKENBECK, AND DAVID C. MORRISON. Immune Responses to Hapten–Lipopolysaccharide Conjugates. 1. Modulation of *in Vivo* Antibody Responses to the Polysaccharide 99

G. KRAAL, A. A. GELDOF, AND D. BODEN. T-Cell Differentiation in Lethally Irradiated and Reconstituted Mice 110

JULIA M. PHILLIPS-QUAGLIATA. Thymus Dependency of Neonatal Tolerance Induction in the Absence of Detectable Suppressor Cells 120

DAVID H. DEHEER, JACQUELINE M. PAGES, AND ALAIN E. BUSSARD. Specificity of Antierythrocyte Autoantibodies Secreted by a NZB-Derived Hybridoma and NZB Peritoneal Cells .. 135

TADASHI KASAHARA, KOHJIN KIN, YOSHIHISA ITOH, TADASHI KAWAI, MAMORU MORITA, AND KOHEI SHIOIRI-NAKANO. Cellular Cooperation in Lymphocyte Activation. IV. Requirement of Cell-to-Cell Interaction for the Activation of Human T and B Lymphocytes by Protein A . . . 142

CLARE RIGLAR AND CHRISTINA CHEERS. Macrophage Activation during Experimental Murine Brucellosis. II. Inhibition of *in Vitro* Lymphocyte Proliferation by Brucella-Activated Macrophages 154

CHRISTINA CHEERS, HELENA PAVLOV, CLARE RIGLAR, AND ELOISA MADRASO. Macrophage Activation during Experimental Murine Brucellosis. III. Do Macrophages Exert Feedback Control during Brucellosis? 168

MARC DAÉRON, ANNIE PROUVOST-DANON, AND GUY ANDRÉ VOISIN. Mast Cell Membrane Antigens and Fc Receptors in Anaphylaxis. II. Functionally Distinct Receptors for IgG and for IgE on Mouse Mast Cells 178

SHORT COMMUNICATIONS

STEVEN S. GEIER AND PETER CRESSWELL. Monocytes as Accessory Cells in the Human Mixed Lymphocyte Response: Lack of Requirement at High Cell Densities 190

BEN-AMI SELA. Splenocytes Incorporated with Exogenous Gangliosides Induce a Mixed Lymphocyte Reaction in Autologous Lymphocytes 196

GIULIA C. B. ASTALDI, A. ASTALDI, P. WIJERMANS, P. TH. A. SCHELLEKENS, AND V. P. EIJSVOOGEL. A Thymus-Dependent Serum Factor Induces Maturation of Thymocytes as Evaluated by Graft-versus-Host Reaction 202
RANDALL BARTON, FRANK MARTINIUK, ROCHELLE HIRSCHHORN, AND IRVING GOLDSCHNEIDER. Inverse Relationship between Adenosine Deaminase and Purine Nucleoside Phosphorylase in Rat Lymphocyte Populations 208
GILLIAN M. P. GALBRAITH, ROBERT M. GALBRAITH, AND W. PAGE FAULK. Transferrin Binding by Human Lymphoblastoid Cell Lines and Other Transformed Cells 215
T. N. S. UDUPA, J.-M. CAVAILLON, B. CINADER, C.-T. CHOU, AND S. DUBISKI. Rabbit T Cells with and without Fc Receptors 223

ANNOUNCEMENT 229
PAPERS TO APPEAR IN FORTHCOMING ISSUES 230

NUMBER 2, FEBRUARY 1980

INÉS MALAVÉ, ANDREA NÉMETH, AND MARISOL POCINO. Changes in Lymphocyte Populations in Protein–Calorie-Deficient Mice 235
SYLVIA B. POLLACK, SANDRA L. EMMONS, AND MICHAEL V. HERRICK. Inhibition by Autologous Lymphoid Cells of Antibody-Dependent Cellular Cytotoxicity (ADCC) to a Tumor Target . . . 250
K. K. SETHI AND H. BRANDIS. Production of Neutralizing Antibody to Rabies and Vesicular Stomatitis Viruses by Hybrid Cell Lines 260
NICHOLAS M. PONZIO. Lymphocyte Responses to Syngeneic Antigens. I. Enhancement of the Murine Autologous Mixed Lymphocyte Response by Polyethylene Glycol 266
K. M. CHIU, R. B. FAANES, AND Y. S. CHOI. Activation of Specific Suppressor Cells with Heat-Treated Allogeneic Tumor Cells 283
JOHN S. CORVESE, ELINOR M. LEVY, MICHAEL BENNETT, AND SIDNEY R. COOPERBAND. Inhibition of an *in Vitro* Antibody Response by a Suppressor Cell in Normal Bone Marrow . . . 293
THOMAS MILLER AND ELAINE STEWART. "Filler" Cells Are Nonimmunological Cushions 307
KOJI SUZUKI AND T. B. TOMASI, JR. The Regulatory Effect of Macrophages on the Antigen-Induced Lymph Node Cell Proliferative Response 317
WILLIAM C. GORDON, MORTON D. PRAGER, AND MICHAEL C. CARROLL. The Enhancement of Humoral and Cellular Immune Responses by Dimethyldioctadecylammonium Bromide . . . 329
HANS VAN DIJK, PIETERNEL M. RADEMAKER, ANS SLOTBOOM, AND JAN M. WILLERS. Antigen-Specific Helper Activity in Serum of Mice Primed with Sheep Red Cells. I. Definition of the Test System and Comparison with Other Systems 341
HOWARD B. KESSLER AND ALBERT F. LOBUGLIO. Interaction of Monocytes with Tumor Cells Coated with Complement with or without Antibody 352
IZUMI NAKASHIMA, FUMIHIKO NAGASE, AKIO MATSUURA, AND NOBUO KATO. Adjuvant Actions of Polyclonal Lymphocyte Activators. II. Comparison and Characterization of Their Actions in Initiation and Potentiation of Immune Responses to T-Dependent and T-Independent Soluble Antigens 360

SHORT COMMUNICATIONS
JEANNINE CHARREIRE, CLAUDE CARNAUD, AND JEAN-FRANÇOIS BACH. Studies on Mouse Autoreactive Cells. I. Role of H-2 Antigens in Mouse Autologous Rosette Formation . . . 372
SOMESH D. SHARMA, WILLY F. PIESSENS, AND GARDNER MIDDLEBROOK. *In Vitro* Killing of Tumor Cells by Soluble Products of Activated Guinea Pig Peritoneal Macrophages . . . 379
RICHARD D. PASTERNAK, MAUREEN H. BOCCHIERI, AND J. BRUCE SMITH. Surface Phenotype of Responder Cells in the Syngeneic Mixed Lymphocyte Reaction in Mice 384
J. E. BLALOCK, J. A. GEORGIADES, M. P. LANGFORD, AND H. M. JOHNSON. Purified Human Immune Interferon Has More Potent Anticellular Activity than Fibroblast or Leukocyte Interferon 390
KLAUS D. ELGERT. *In Vivo* Assessment of Tumor-Induced Nonspecific Suppression of Contact Sensitivity. I. Correlation with *in Vitro* Studies 395
N. VAN ROOIJEN AND RIA VAN NIEUWMEGEN. Liposomes in Immunology: Evidence that Their Adjuvant Effect Results from Surface Exposition of the Antigens 402

ARTHUR H. HALE. Molecular Requirements for Trinitrophenyl Recognition by Antihapten Cytotoxic T Lymphocytes 408
MOSHE GLASER. A Requirement for Three Cell Types for *in Vitro* Generation of Specific Secondary Cell-Mediated Cytotoxic Response against SV40-Induced Tumor-Associated Antigens in Mice 415
JAMES S. GOODWIN. Modulation of Concanavalin-A-Induced Suppressor Cell Activation by Prostaglandin E_2 421
M. EMAM, R. BARSTAD, AND E. J. EICHWALD. Transfer of Cell-Mediated Hyperacute Rejection Reaction. The Role of Active Sensitization 426

PAPERS TO APPEAR IN FORTHCOMING ISSUES 432

AUTHOR INDEX FOR VOLUME 49 436